

January 27, 2014

Tucker Smith U.S. Army Corps of Engineers Regulatory Branch 803 Front Street Norfolk, VA 23510

RE: Centerville Property

Project No. 06-006

Dear Mr. Smith:

On behalf of our client, Tri-City Properties, LLC (Attn.: Michael Gelardi, 3333 Virginia Beach Boulevard, Suite 24, Virginia Beach, Virginia 23452) Roth Environmental, LLC is requesting confirmation of the wetland delineation within the study area identified on the referenced project. The Centerville property is located on the eastern side of Centerville Turnpike in Chesapeake, Virginia. The site is specifically located 1,700 feet southeast of the intersection of Mill Pond Road and Centerville Turnpike. The study area is approximately 90 acres.

The Centerville Property is predominantly vegetated by mixed deciduous hardwood forest. The site contains numerous drainage ditches and two stormwater management ponds. The overall regional slope of the area is to the east toward Stumpy Lake. A main ditch is located through the southern portion of the site. This ditch flows from west to east. It provides drainage from upslope properties and channelized flow that is directed to it from a large portion of Centerville Turnpike.

Prior to field investigations, research on the site was performed using aerial photographs, USGS Topographic Maps, GIS mapping, the NRCS Soils survey, and the previously confirmed wetland delineation. The site is almost entirely mapped by the NRCS as containing Acredale soils. These soils are listed as poorly drained by the NRCS when no ditching or other modifications have been made.

At its highest elevation, the property is approximately 12 feet above mean sea level. This is found on the western portion of the study area. As the property falls to the east, it drops in elevation to approximately 6 feet above mean sea level. As stated before, the site drains from west to east.

Roth Environmental, LLC has performed a wetland delineation on the site utilizing the Routine Determination Method as outlined in the 1987 U.S. Army Corps of Engineers Wetlands Delineation Manual (TR Y-87-1). This manual was used as it was the valid wetland delineation manual in use at the time Tri-City Associates submitted their Joint Permit Application. As the applicant has continued work with the Norfolk District to provide additional information to the

originally submitted application, this manual should still apply. This practice has been done for other applicants in the permit process and should extend to Tri-City Associates.

The site is divided into two habitat types. These habitats consist of mixed deciduous hardwood forested uplands and forested nontidal wetlands. The forested uplands are found along the northern portion of the project site. There are also uplands found in pockets on the eastern portion of the study area. The upland areas are typically dominated by facultative and dryer species such as loblolly pine (*Pinus taeda*), red maple (*Acer rubrum*), sweet gum (*Liquidambar styraciflua*), hop hornbeam (*Ostrya virginiana*), American beech (*Fagus grandifolia*), paw paw (*Asimina triloba*), shagbark hickory (*Carya ovata*), giant cane (*Arundinaria gigantea*), tulip tree (*Liriodendron tulipifera*), honeysuckle (*Lonicera japonica*), grape (*Vitis rotundifolia*), and greenbrier (*Smilax rotundifolia*). Soils in the upland areas, as they are throughout much of the developed portions of Chesapeake, are low chroma mottled sandy clay loams (10YR 4/2 – Munsell Soil Color Charts). No indicators of hydrology were observed in the upland areas.

The forested nontidal wetlands comprise the remainder of the site. These areas are vegetated by a dominance of facultative and wetter species such as red maple, sweet gum, green ash (*Fraximus pennsylvanica*), swamp chestnut oak (*Quercus michauxii*), ironwood (*Carpinus caroliniana*), willow oak (*Quercus phellos*), water oak (*Quercus nigra*), giant cane, climbing hydrangea (*Decumaria barbara*), longleaf spikegrass (*Chasmanthium sessilifolium*), southern waxy sedge (*Carex glaucescens*), lizard's tail (*Saururus cernuus*), and false nettle (*Boehmeria cylindrica*). Soils in the wetland areas are also low chroma mottled sandy clay loams (10YR 4/1). Indicators of hydrology that were observed included inundation to three inches, saturated soils in the upper 12 inches of the soil surface, drainage patterns in wetlands, water stained leaves, and the FAC-Neutral test. Other indicators that were documented included the presence of sphagnum moss and depressional areas in the landscape.

In general, the most recent wetland delineation identifies a wetland/upland boundary that is similar in shape and size to the originally confirmed wetland delineation performed in 2006. For the most part, the wetland limit stayed in its original location. There were areas were the line was adjusted to account for new indicators or newly growing vegetation. This is reflected in the new wetland delineation drawing.

The area surround the Centerville Property includes undeveloped land, a school with athletic fields, a stable, a large subdivision to the north (with a nearly identical landscape position to the Centerville Property), Stumpy Lake, and Centerville Turnpike.

Based on our field calculations, the study area contains approximately 30 acres of uplands and 60 acres of nontidal forested wetlands.

U.S. Army Corps of Engineers January 27, 2014 Page 3 of 3

Included with this report are a wetland delineation drawing, a vicinity map, data collection forms, the NRCS soils map, and the NWI map. At this time, we are requesting confirmation of the wetland delineation.

Please contact me at 814-1048 or <u>rothenv@cox.net</u> to schedule a confirmation site visit at your earliest convenience.

Sincerely,

ROTH ENVIRONMENTAL, LLC

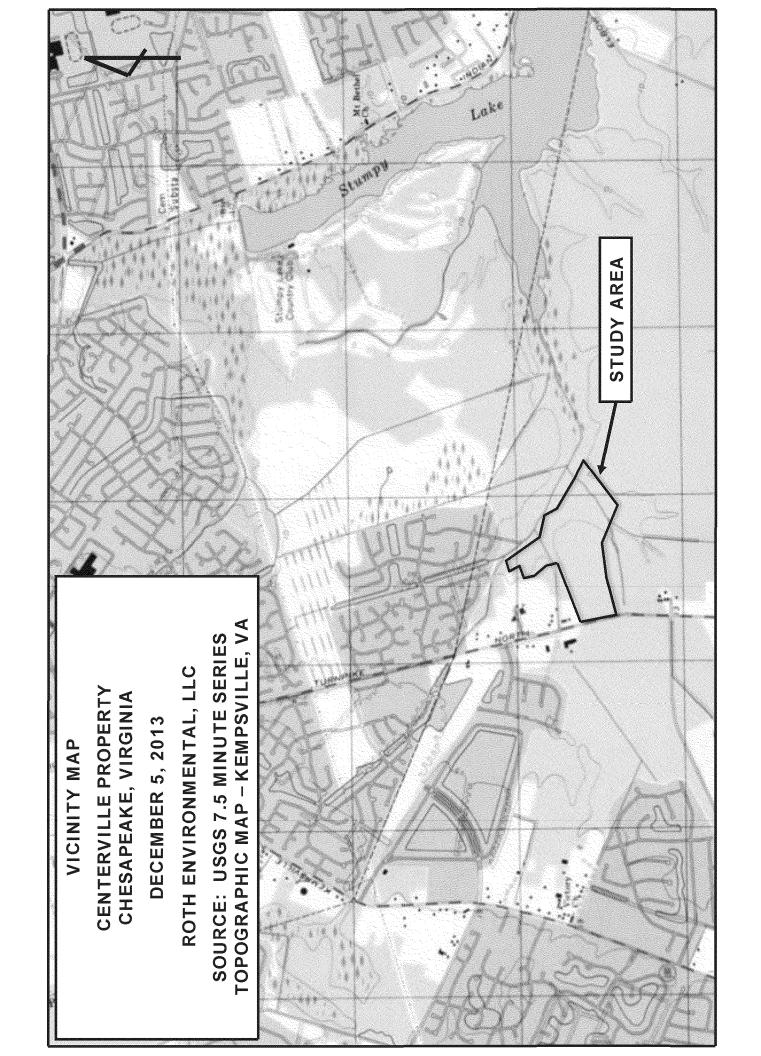
Matthew Roth, P.W.S.

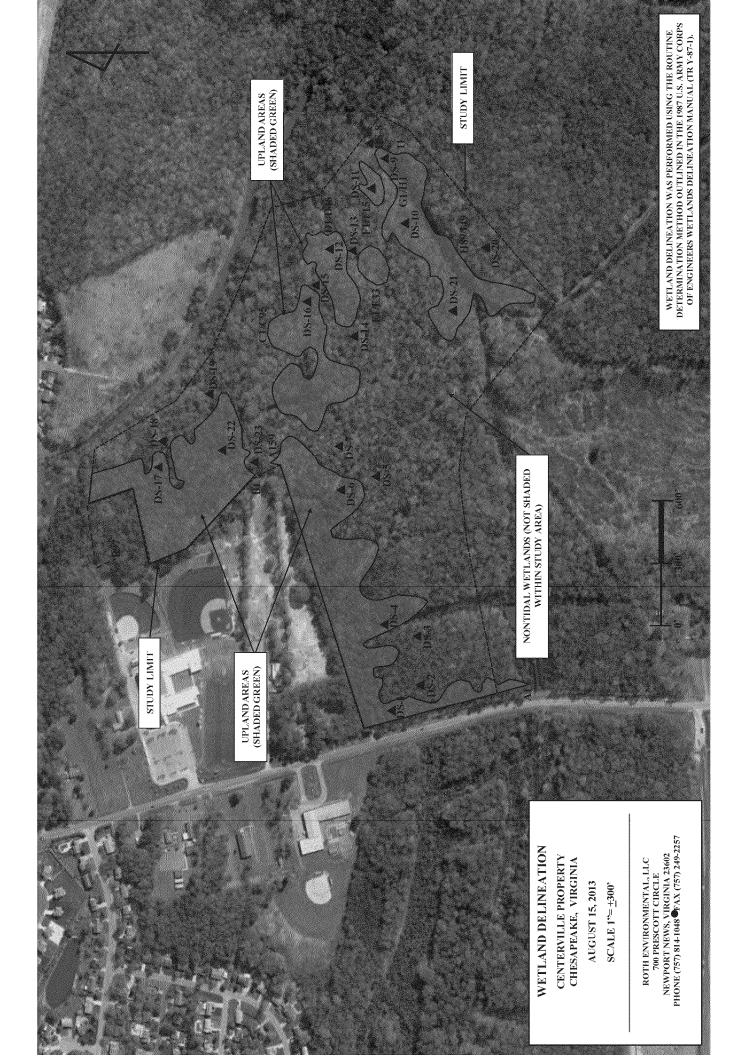
President

Enclosures

cc: Mike Gelardi

Macintosh HD:Users:Roth:Documents:Roth Environmental, LLC:Projects:2006:06-006.centerville:2013 Wetland Delineation:2013.12.05.smith.wetland delineation.docx

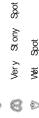




12/5/2013 Page 1 of 3 Web Soil Survey National Cooperative Soil Survey Natural Resources Conservation Service NSDA W

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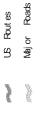
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Aerial Photography

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http://websoilsurvey.nrcs.usda.gov Veb Mercator (EPSG 3 8 5 7) Natural Resources Conservation Service Web Soil Survey URL: Coordinate System Source of Map:

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NSDA

Map Unit Legend

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Map Unit Symbol	Map Unit Name	Acres in ACI		Percent of ACI	
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Centerville Property

Aug 19, 2013

Wetlands

Freshwater Forested/Shrub Freshwater Emergent

Estuarine and Marine Deepwater

Estuarine and Marine Freshwater Pond

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Riverine

Other

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mappe web site.

User Remarks:

10000 300m

Project/Site: <u>Centerville</u> Property Applicant/Owner: Tri-City Property L Investigator: Roth		Date: 7/25/13 County: Chesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species Stratum Indicator 1. Pinus taeda C FAC- 2. Acer rubrum C FAC 3. Acer rubrum S FACU- 4. Ostrya virginiana S FACU- 5. Fraxinus pennsylvania Sh FACW 6. Carya ovata Sh FACU- 7. Quercus marilandia Sh UPL 8. Arundinaria gigantea H FACW Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10. Partherocussus 11. Lonicera jap 12. 13. 14. 15.	Stratum Indicator H FAC- Squinquefolia V FACU CONICO STACE SALANDONICO STACE SALANDON
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Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present? Remarks:	(Circle) Is this Sampling Point Within a Wetland? Yes No

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, L Investigator: Roth	Date: 7/a5/13 County: Chesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Community ID : Yes No Transect ID: Yes No Plot ID:
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5. Anundinana gigantea H FACW	13.
6 Osmunda regalis H OBL	14
7. Parthenocussus quinquefolia. V FACU	15. Annicologica de la companya del la companya de
	16
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	57%
Remarks:	
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Remarks:	

Map Unit Name (Series and Phase): Acredale Silt Loam Taxonomy (Subgroup): Typic Chraqualfs			Field	age Class: Porty dvained Observations Infirm Mapped Type? (Yes) No
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WETLAND DETERMINATION

Hydrophytic Vegetation Present? Yes No (Circle) Wetland Hydrology Present? Yes No No No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:	
	Approved by HOUSACE 3/92

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties LL(Investigator: Roth		Date: 7/25/13 County: Chesopeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
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8. Parthenocissus quinquebla V FXV	16	opperation controller in management of the controller in the contr
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	6770	
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HYDROLOGY		
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Other No Recorded Data Available	Water N	
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Field Observations:	Secondary Indicat	ors (2 or more required):
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Map Unit Name (Series and Phase): Acredate Sitt Loam Taxonomy (Subgroup): Typic Ochraquales			Field	age Class: Poorly divoursed Observations Infirm Mapped Type? Yes No
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WETLAND DETERMINATION

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Remarks:	
	Annouged by HOUSACE 3/92

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, LI Investigator: Koth		Date: 7/25/13 County: Chesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
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Quercus marillandica Sh UPL		integricial destination (Contraction Contraction Contr
Vitis rotundifolia V FAC-		allusiasassosioteiteiteiteiteiteiteiteiteiteiteiteiteit
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HYDROLOGY		
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Map Unit Name (Series and Phase): Acredale Silt Loan	Field Observations
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4-14+ 104R4/2 104R5	
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WETLAND DETERMINATION	
Hydrophytic Vegetation Present? Wetland Hydrology Present? Hydric Soils Present? No (Circle) No No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:	

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties LI Investigator: Roth		Date: 7 25 13 County: Chesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species Stratum Indicator	Dominant Plant Specie	
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2 Carpinus Cardiniana 5 FAC		nees-keen neerin kan ka
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8 Parthonocissus quinquefilia V FACU		
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	677.	
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HYDROLOGY		
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Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other	Primary Indicators: Inundate	d in Upper 12 Inches
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Map Unit Name (Series and Phase): Acredate Silt Loam Drainage Class: Poorly drained Field Observations								
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	Hydric Soil Indicators: Histosol Concretions Histic Epipedon High Organic Content in Surfa ce Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks) Remarks:							
WETLAND DETERMINATION								
Hydrophytic Vegetation Present? (Ves.) No. (Circle) Wetland Hydrology Present? (Ves.) No. Hydric Soils Present? (Ves.) No. Is this Sampling Point Within a Wetland? (Ves.) No.								
Remarks:								

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, LI Investigator: Koth		Date: 7/25/13 County: Chesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species Stratum Indicator 1 Prinus taeda C FAC 2 Lirio dendron tulipitera C FACU 3 Arer rubrum S FAC 4 Carpinus caroliniana S FAC 5 Asimina triloba Sh FACUT 6 Lonicera japonica V FAC- 7 Vitic rotundifolia V FAC- 8. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	1111121314151611816118118118118118118118118118	
HYDROLOGY		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: (in.)	Water M Drift Line Sedimer Drainage Secondary Indicate Oxidized Water-S Local So FAC-Nee	: d d in Upper 12 Inches arks
Remarks: No Observed Hydrologic	Dodicators	

Map Unit Name (Series and Phase):			Field	age Class: Acry drained Observations Infirm Mapped Type? Yes No			
Profile Description: Depth (inches) Horizon 0-3 3-14+	Matrix Color (Munsell Moist) LOYR 3/2 LOYR 4/3	Mottle Colors (Munsell Moist) None VOYR SIY	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc. Sandy lan Sondy Cay lan			
Hydric Soil Indicators: Histosol Concretions Histic Epipedon High Organic Content in Surface Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks) Remarks:							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? (No. (Circle) Wetland Hydrology Present? Yes Hydric Soils Present? Yes No.	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:	
	Assessed by HOLIGARY 6000

Project/Site:	Yes No Yes No Yes No	Date: 7 25 B County: Chesapeake State: VA Community ID: Transect ID: Plot ID: DS 7
Dominant Plant Species Stratum Indicator 1. Quercus Fahata populatidas (FACW) 2. Liquidamhar styracificas (FACW) 3. Acer rubrum (FAC) 4. Acer rubrum (FAC) 5. Carpinus Caroliniana (S) FACW 6. Ostryci Virginiana (Sh) FACW- 7. Asimina triboba (Sh) FACW- 8. Chasmarthium se sciliflorum H FAC Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10. Decumaria 11. Toxico dendra 12 13. 14. 15.	Stratum Indicator HH — Darhara Valuation OBL A radicars V — PAC
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks: Depressional carea.	Water N Drift Line Sedimer Drainage Secondary Indicate Water-S Local Sc	ed id in Upper 12 Inches larks es it Deposits e Patterns in Wetlands ors (2 or more required): It Root Channels in Upper 12" itained Leaves oil Survey Data

l	j Phase): Ac	nedale Sitt Typic Och		Field (age Class: Poorly Avained Observations Infirm Mapped Type? (Yes) No			
raxonomy	(Subgroup)				Illimiti wiebbeg Tybe i Ces Wo			
Profile De: Depth (inches)	scription: Harizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottie Abundance/Contrast	Texture, Concretions, Structure, etc.			
0-a		WX8 3/1	Done		SiltyLoans			
2-124		1048 4/1	LOYR 5 4		any Lean			
	And an interest of the second							
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Hydric Soil	Indicators:							
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surface Layer Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)								
Remarks:								
WETLAN	D DETERMI	NATION						

Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes Hydric Soils Present?	No No No	(Circle)	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:			
			Appearant by LICH SCACE 2012

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Centruille Property Applicant/Owner: Tri-City Properties, ICC Investigator: Roth Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?	Yes No Yes No Yes No	Date: 1 25 13 County: Chesapeake State: VA Community ID: Transect ID: Plot ID: DS 8
(If needed, explain on reverse.) VEGETATION		
Dominant Plant Species Stratum Indicator 1 Acer rubrum C FAC 2 Fraxinus pennsylvanica C FACW 3 Quercus michauxII C FACW 4 Ulmus americana S FACW- 5 Acer rubrum S FAC 6 Corpinus caraligiana S FAC 7 Ostrya Virginiana Sh FACW- 8 Arundinaria gigantea H FACW Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10. Taxicoderdos	Stratum Indicator Surbora V DBL FAX FAX PROPERTIES OF TRACE PROPERT
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.) Remarks: Depressional Arca	Water M Drift Line Sedimen Drainage Secondary Indicate Water-Si Local So FAC-Net	: d d in Upper 12 Inches arks

Remarks:

1	Phase): Ac	vedale Sil-		rieio i	age Class: Poorly Douned Observations onfirm Mapped Type? Yes No
Profile Des Depth (inches) Q-3 3-12+	Horizon	Matrix Color (Munsell Moist) VD48 311 VD48 411	Mottle Colors (Munsell Mo None Loge 5/4	ist) Abundance/Contrast	Texture, Concretions, Structure, etc. Silly Lam Clay Loam
Hydric Soil	Histosol Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co	re Regime		Concretions High Organic Content in Organic Streaking in Sa: Listed on Local Hydric S Listed on National Hydri Other (Explain in Remai	Soils List ic Soils List
WETLAN	D DETERMIN	NATION			
Wetland H	ic Vegetation P ydrology Prese Is Present?	ent? ((es)	No (Circle) No No	Is this Sampling Point Wit	(Circle)

Project/Site: Contextille Property Applicant/Owner: Tvi-City Properties US Investigator: Qoth Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.) VEGETATION	Date:
Dominant Plant Species Stratum Indicator 1. Avercus falcata pagodaefdia C FACW 2. Averos MichauxII C FACW 3. Ostnya virginiana S FACU- 4. Canya avata S FACU- 5. Asimina triloha Sh FACU+ 6. Anindinaria gigantaa H FACW 7. Toncodendron radians V FAC 8. Vitis rotundifalia V FAC- Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	Dominant Plant Species Stratum Indicator 9
Remarks: HYDROLOGY	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks: No Observed Hydrologic	Wetland hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12* Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

(Series and	Map Unit Name (Series and Phase): Acredate Silt Loam Taxonomy (Subgroup): Typic Ochragual Confirm Mapped Type Yes No							
Profile Des Depth (inches) D-2 2-5 5-14	Horizon	Matrix Color (Munsell Moist) 1048 312 1048 412	Mottle Colors (Munsell Moist) None None None	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc. Sandy Learn Silty Learn Clay Learn			
Hydric Soil	Hydric Soil Indicators:							

WETLAND DETERMINATION

Hydrophytic Vegetation Present? No (Circle) Wetland Hydrology Present? Yes No No No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:	
	Annoyad by HOURACE 900

Project/Site: Centerv: Ne. Property Applicant/Owner: Tri-City Properties, Li Investigator: Roth		Date: 125/13 County: Chesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
VEGETATION	ab	
Dominant Plant Species Stratum Indicator	Dominant Plant Specie	
1 Quercus falcata pagadosfilia C FACU 2 Liriodendron tulipitera C. FACU	10/1/4/2 Regiments	gigartea H FACW Folia V FAC-
3 Canp crata C FACU-	11	
1 Fagus grandifolia S FAW	12	
5 Ostrya Virginiana S FAW-		dougleomorphisms and a second of the second
6 Liquidambar styrociflua S FAC		Octobylja trijalationis omanina mana samana sama
7. Ostrya virginiana Sh FACU-		and a state of the
8. Asymuna thiloba Sh FAKU+ Percent of Dominant Species that are OBL, FACW or FAC		
(excluding FAC-).	30%	
Remarks:		
	·	
HYDROLOGY		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Water M Drift Line	: ed d in Upper 12 Inches larks es
Field Observations:	Drainage	nt Deposits a Patterns in Wetlands
Depth of Surface Water:(in.)	Oxidized	ors (2 or more required): I Root Channels in Upper 12"
Depth to Free Water in Pit:(in.)	Local Sc	tained Leaves oil Survey Data utral Test
Depth to Saturated Soil:(in.)	\$ nonementaria	ixplain in Remarks)
Remarks: No observaed Hydrologic	Indicators	

Map Unit Name (Series and Phase): Arridale Silt Loam Taxonomy (Subgroup): Typic Ohraqualfs Drainage Class: Porly Vaine Field Observations Confirm Mapped Type? Yes No				
Taxonomy (Subgroup): Typic Chraqualfs Confirm Mapped Type? Yes No Profile Description: Depth (inches) Horizon (Munsell Moist) (Munsell Moist) (Munsell Moist) Abundance/Contrast Structure, etc. D-1 LOYR 3 2- None Sandy Clay 3-B+ LOYR 4 3 None Sandy Clay 3-B+ LOYR 4 3 LOYR 5 4 5 Clay Loan Hydric Soil Indicators:				
Histosol Concretions Histic Epipedon High Organic Content in Surfa ce Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks) Remarks:				
WETLAND DETERMINATION				
Hydrophytic Vegetation Present? Yes No (Circle) Wetland Hydrology Present? Yes No No Is this Sampling Point Within a Wetland? Yes No				
Remarks:				

Project/Site: Centeralle Property Applicant/Owner: TVI-City Properties, U Investigator: Roth		Date: 72513 County: Chosapeale State: VA		
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:		
VEGETATION				
Dominant Plant Species Stratum Indicator	Dominant_Plant_Specie	Stratum Indicator		
1. Carya Ovata C FAOU-		100460440000000000000000000000000000000		
2 Liquidambarshyraciflua C FAC 3 Ostrya Virginiana S FACU-	10.	montesperationismes substances announces instances announces in the contract announces and announces annou		
3 Ostrya Virginiana S FACU-	11-	essenimente del Responsi		
4 Fagus grandifolia S FACU	12			
5 Asimira triloba Sh FACU+	18.			
6 Ostrya Virginiana Sh FACU-				
7. Parthenocios quinquelida V FACU		opposition or angular and angular angu		
8	16			
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	147.			
Remarks:				
HYDROLOGY				
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland hydrology Ind Primary Indicators: Inundate Saturated Water Mi	d d in Upper 12 Inches arks		
Sediment Deposits				
Remarks: No Observed Hydrologic Indicators				
·				

Map Unit Name (Series and Phase): A			Field	age Class: Roxly Droined Observations onfirm Mapped Type? (Yes) No
Profile Description: Depth (inches) Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.
0-2	1048 3/2	None		Sorry Lower
	7018 A/3	_none_		Sandyloam
5-14+	104R 5/2	104R 514		Clay Loam
Syrgings minimation demonstrations. In individual continues desired and continues desire	makalala sa saja saata saasa soo sa sajah hala sa		ness accommon nessina citation de la	
				application of the missing and application of the final substitution of the substituti
Hydric Soil Indicators:				
Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Concretions High Organic Content in Surfa ce Layer Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)				
Remarks:				
		CHIOCHE		
WETLAND DETERM	INATION	*		

Hydrophytic Vegetation Present? Yes No (Circle) Wetland Hydrology Present? Yes No No No No	(Ci	rcle)
Remarks:		
	Approved by E	IOUSACE 3/02

Project/Site: Centerville Property Applicant/Owner Tri-City Properties 1 Investigator: Roth Do Normal Circumstances Exist on the site?	Yes No	Date: 7/25/13 County: ChesopeoVe State: VA Community ID :
Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No	Transect ID: Plot ID: DS 12
VEGETATION		
Dominant Plant Species Stratum Indicator 1 Liquidambar Shyraciflua (FAC) 2 Quercus fakata populaefalia (FAC) 3 Pinus toeda (FAC) 4 Carya ovata S FAC) 5 Ostrya virginiana S FAC) 6 Ostrya virginiana Sh FAC) 7 Chasmanthium sessilifolium H FAC 8 Vitic rotumbifolia V FAC Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10	Stratum Indicator PAC PAC PAC PAC PAC PAC PAC PA
Recorded Data (Describe in Remarks):Stream, Lake, or Tide GaugeAerial PhotographsOtherNo Recorded Data Available Field Observations: Depth of Surface Water:(in.) Depth to Free Water in Pit:(in.) Depth to Saturated Soil:(in.) Remarks: No Observed Hydrologic 3	Water M Drift Line Sedimen Drainage Secondary Indicate Oxidized Water-St Local So FAC-Net Other (E	d d in Upper 12 Inches arks es

Map Unit Name (Series and Phase): Acredoke S:1+ Loam Drainage Class: Perly Drain				
Taxonomy (Subgroup): Typic Ochraqual&	Field Observations Confirm Mapped Type? Yes No			
Profile Description: Depth Matrix Color Mottle Color (inches) Horizon (Munsell Moist) (Munsell Moist)	oist) Abundance/Contrast Structure, etc.			
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1-7 rote 2/1 rote 2/1	· · · · · · · · · · · · · · · · · · ·			
Hydric Soil Indicators:				
Histosol Concretions High Organic Content in Surfa ce Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)				
Remarks:				
WETLAND DETERMINATION				
Hydrophytic Vegetation Present? No (Circle) Wetland Hydrology Present? Yes No No No	(Circle) Is this Sampling Point Within a Wetland? Yes No			
Remarks:				

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, U Investigator: Rotto Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Date: 7 13 13 County: Chesopeake State: VA Community ID : Transect ID: Plot ID: DS 13
VEGETATION		
Dominant Plant Species Stratum Indicator 1 Liquidambar Styraciflua C FAC 2 Querrus MichauxII C FACW 3 Acer Yubnum S FAC 4 Carpinus cardithara S FAC 5 Ostrya Virginiana S FACU- 6 Ostrya Virginiana Sh FACU- 7 Arundinaria giganta H FACW 8 Socilax raturdifolia V FAC Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10111213141516161	litolia V FAC-
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water:	Water Ma Drift Line Sediment Drainage Secondary Indicato Oxidized Water-St Local Soi	ed ed in Upper 12 Inches larks

Lam	Draina	ige Class: Poorly Drained		
Taxonomy (Subgroup): Typic Cohraquales				
Mottle Colors Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.		
None_	William Million and Control of Co	Sandy Learn		
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Hydric Soil Indicators: Histosol				
WETLAND DETERMINATION				
(Circle)	his Sampling Point With	(Circle) sin a Wetland? Yes No		
	Inttle Colors Munsell Moist) Nene LOYR 5 4	Concretions High Organic Content in Organic Streaking in Sar Listed on National Hydric Other (Explain in Remark		

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties LI Investigator: Roth Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.) VEGETATION	Yes No Yes No Yes No	Date: 7 a5 B County: 1 vsapeave State: VA Community ID: Transect ID: Plot ID: DS 14
Dominant Plant Species . Stratum Indicator 1. Quercus Falcata pagodaefolia C FACW 2. Liquidambar styrariffua C FAC 3. Quercus nigra. C FAC 4. Carpunus Caroliniana S FAC 5. Acer robrum S FAC 6. Ostrya virginiana Sh FACW 7. Arundinania gigarrtoa H FACW 8. Chais manthium Sessiliflarum H FAC Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10	rditolia V FAC
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: Remarks: Depressional area.	Water M Drift Line Sedimen Drainage Secondary Indicate Oxidized Water-St Local So FAC-Net	ed ed in Upper 12 Inches flarks es nt Deposits e Patterns in Wetlands fors (2 or more required): d Root Channels in Upper 12" stained Leaves foil Survey Data

	Acredole Sil		Field	age Class: Prorly Drained Observations				
Taxonomy (Subgroup Profile Description: Depth (inches) Horizon O-3 3-\2+	Matrix Color (Munsell Moist) 1048 312	Mottle Colors (Munsell Moist) None 104R 5 4	Mottle	Texture, Concretions, Structure, etc. Sandy Loam Clay Loam				
Histosol Histic Ep Sulfidic C Aquic Mo	Histic Epipedon High Organic Content in Surfa ce Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)							
WETLAND DETER	MINATION							
Hydrophytic Vegetatic Wetland Hydrology Pr Hydric Soils Present? Remarks:	resent? (Yes) N	lo (Circle) lo lo Is	this Sampling Point Witi	(Circle) hin a Wetland? Yes No				

DATA FORM ROUTINE WETLAND DETERMINATION (1987 COE Wetlands Delineation Manual)

Project/Site: Centerville Property Applicant/Owner: Tri-City Property Investigator: Roth Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Date: 7 25 13
Dominant Plant Species Stratum Indicator 1 Quercus falcata pognosefalia (FACW) 2 Liquidombar Styrociflua (FAC) 3 Acer rubrum (FAC) 4 Carpinus Carolinora S FAC 5 Acer rubrum S FAC 6 Ostrya Virginiana Sh FACU- 7 Chasmanthium Sessiliflorum H FAC 8 Decumana barbara V OBL Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	Dominant Plant Species Stratum Indicator 9
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations: Depth of Surface Water:(in.) Depth to Free Water in Pit:(in.) Depth to Saturated Soil:(in.) Remarks: Depressional area	Sediment Deposits Drainage Patterns in Wetlands Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12* Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)

Map Unit Name (Series and Phase): Accedule Silt Loam Drainage Class: Doorly Drawed							
Taxonomy	(Subgroup): _	Typic Och	Field C	Observations Confirm Mapped Type? Yes No			
Profile Des Depth (inches)	scription: Horizon	Matrix Color (Munsell_Moist)	Mottle Colors (Munsell Mois	Mottle t) Abundance/Contrast	Texture, Concretions, Structure, etc.		
0-3		1018 3/5	None.	vindes prisin duristica adas ida harinana instructura instructura in minima de la companya de la	Sandy Loam		
3=15+	sissusisiois nintheek tähntäilien viinosiavala	10/8 41	104K 5 4	skanailahnan repirentiin pirentiin perintiin sii seliitaa lainiin taan taan taan taan taan taan taa	clay Low		
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Hydric Soil	Indicators:	7					
nderscholen nach einer Noblessande	Histosol Concretions Histic Epipedon High Organic Content in Surface Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)						
Remarks:							
WETLAN	D DETERMIN	NATION					
Hydrophyti Wetland Hy Hydric Soil	c Vegetation Pr ydrology Prese s Present?	resent? Yes N nt? Yes N Yes N	0	Is this Sampling Point Wi	(Circle) thin a Wetland? Yes No		
Remarks:			en e				

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, LI Investigator: Roth		Date: 7/25/13 County: Chesapeave State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No	Community ID : Transect ID: Plot ID: DS 110
VEGETATION		
Dominant Plant Species Stratum Indicator 1. Pinus tracia C FACT 2. Quercus MichauxII C FACW 3. Quercus Nigra C FAC 4. Fagus Grandifelia S FACU 5. Ostrya Virginiana S FACU- 6. Ostrya Virginiana Sh FACU- 7. Arundinana gigantea H FACU 8. Mitchella Repens H FACU Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10. Vitis roturd 11	indifolia V FAC-
HYDROLOGY Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.)	Water M Drift Line Sedimen Drainage Secondary Indicate Oxidized Water-St Local So FAC-Net Other (E	: d d in Upper 12 Inches arks
Remarks: No observed Hydrologic Dr	dicatocs	

Map Unit Name (Series and Phase): Acredole Silt I com Drainage Class: Poorly Drained Field Observations									
Taxonomy (Subgroup): Typic Ohraqualfs					observations infirm Mapped Ty	ype? (Yes) No			
Profile De: Depth (inches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concr Structure, etc.	etions,			
0-3		1048 3/2		Whether has be the time of the charge manager page and a delicate absence the characteristic forms.	Sandyl				
a <u>-</u> 5	incidental control of the second of the seco	1018 4/2	Nonz		Sandy	Coam			
5:W+		1048 5 II	1048 5/4		-Charlie	<u>~~~~</u>			
- Control Control of the Control of		warma danaka naka kaka kaka kaka kaka kaka k		we have probable descriptions of the description		inostrolineko asamineki kilikusumatenik			
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Hydric Soil	Indicators:								
Remarks:	Histosol Concretions High Organic Content in Surfa ce Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks) Remarks:								
WETLAND DETERMINATION									
Wetland H	c Vegetation Pr ydrology Prese s Present?			this Sampling Point With	nin a Wetland?	(Circle) Yes No			
Remarks:									

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, LLC Investigator: Roth	Date: 7 25 13 County: Wesopeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Community ID : Transect ID: Plot ID: DS_17
VEGETATION	
Dominant Plant Species Stratum Indicator	Dominant Plant Species Stratum Indicator
1 Pinus taeda C FAC-	
2 Liquidornbor Styraciflua C FAC	10
3 Carpinus caroliniana S FAC	11
4 Canja Ovata S FAW-	12
5 Querus marilandika S UPL	13
6. Asmina triloba Sh FACU+	14
7. Arundinaria gigantea H FACW	15
«Vitis rotundifolia V FAC-	16
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	_387
Remarks:	
HYDROLOGY	1
Recorded Data (Describe in Remarks):	Wetland hydrology Indicators:
Stream, Lake, or Tide Gauge Aerial Photographs	Primary Indicators:Inundated
Other No Recorded Data Available	Saturated in Upper 12 Inches Water Marks Drift Lines
Field Observations:	Sediment Deposits Drainage Patterns in Wetlands
Depth of Surface Water:(in.)	Secondary Indicators (2 or more required): Oxidized Root Channels in Upper 12"
Depth to Free Water in Pit:(in.)	Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test
Depth to Saturated Soil:(in.)	Other (Explain in Remarks)
Remarks: No Observed Hydrologic-	Indicators

	I Phase): Ac	redalt Silt	Field	age Class: Poorly Drouned Observations		
Taxonomy	(Subgroup):	Typic ab	raqualts	Co	infirm Mapped Type? Yes No	
Profile Des Depth (inches)	scription: Horizon	Matrix Color (Munsell_Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.	
0-à		CIE AVOI	Mone.		Sandy Loam	
<i>a-4</i>	in the state of th	1048 H2	None	viintiinuudehelioppoolalaikkaidojojoppaapainisto viintiitiitiintiiniitiitiitiitiitiitiitii	Silty Loam	
4-62-6	Alla Grande de Servicio de Constitución de Con	1018 A/3	101×2/19		Clay Loam	
120020000000000000000000000000000000000			balance and control of color boding to a deep or selection or color and deep		20 Approximate Constitution of	
Amountain Connection and Connection	***************************************		$+iii) \leq p \leq k \leq 554 + 2 \log n + k \leq 6 \log n + k \leq 6 \log n + k \log n $		**************************************	
Appainted to the control of the				so that details have do not oppose on the state of the contribution of the contribut	di aucusan nicionale da nata diauna anno anno ancie de la differir referencia esciale immerilyace de acide interior	
Hydric Soil	Indicators:					
Histosol Concretions High Organic Content in Surface Layer Sandy S Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)					ndy Soils ioils List c Soils List	
Remarks:						

WETLAND DETERMINATION

Hydrophytic Vegetation Present? No (Circle) Wetland Hydrology Present? Yes No No	(Circle) Is this Sampling Point Within a Wetland? Yes No
Remarks:	

Project/Site: Centerville Property Applicant/Owner: Tri-City Properties, LL Investigator: Roth		Date: 7125)13 County: <u>Avsopeave</u> State: <u>VA</u>
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species Stratum Indicator	Dominant Plant Specie	es Stratum Indicator Nadirans V FAC
1 Quercus falcato pagadochlia (FACW) 2. Pinus tacda CFAC-		ponica V FAC-
3. Acer rubrum C FAC	****	And the state of t
4 Aper ruboum S FX		diskaturekalaniska suode 1994 et 1901 (1904 turvitat turv
5. Carpinus caroliniana S FAC		Pandalahko 2012.CO 2015: analahko pontarrinya) mencinyanyan in indahini mahanpa daya daja
6 Asimina triloba Sh FAW+		
7 Fraxinus Pennsylvanica Sto FACL		
8. Arundinaria gigantoca H FACW		kowaniania kalikanyi for asponia kilokanyi kilokanyi kilokanyi kanga kilokanyi sa manaki ya kanga kilokanyi sa Anga kanga kanga kilokanyi
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	702	
Remarks:		
HYDROLOGY		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland hydrology Inc Primary Indicators Inundate Saturate Water M	: d d in Upper 12 Inches arks
Field Observations: Depth of Surface Water:(in.)	Drainage Secondary Indicate Oxidized	nt Deposits Patterns in Wetlands Pors (2 or more required): Root Channels in Upper 12* Italian Leaves
Depth to Free Water in Pit:(in.) Depth to Saturated Soil:(in.)	FAC-Nei	oil Survey Data utral Test explain in Remarks)
Remarks: Depressional outca		

Map Unit Name (Series and Phase): Acredate Sith Learn Drainage Class: Poorly Drained								
Field Observations						1		
Profile De Depth (inches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Mois	Mottle st) Abundance/Contrast	Texture, Concretions, Structure, etc.			
6년.	Application for Windows and an extra structure for the con-	1048.312	hone.		Sardyloan			
\		TOTETIE	707K 2/1		Clay Loom			
4-14+		JOYR 411	1048.514	1 10	Clay Loam			
* and a second and a second and a second as a second a								
delación (CO ^{PE} O - O O O O O O O O	$(a_{j,j},a_{j,j+1},a_{j,j},a$	$\label{eq:constraint} Simulation definition of the constraint of$	Lessando-destantados el colonidas de la constitución de la constitució	· The section of the desired experience in the last the section of the desired contract of the section of the s				
Hydric Soil	Indicators:							
	Histosol Histic Epiped Sulfidic Odor Aquic Moistur Reducing Co Gleyed or Lor	re Regime	36886 	Concretions High Organic Content ir Organic Streaking in Sa Listed on Local Hydric S Listed on National Hydr Other (Explain in Rema	Soils List ic Soils List			
Remarks:		Bergeleide Anther Charles De des Legislation and Anther Charles Control of Co	stabilitetiinin ja		Sealth great on the company of the c			
ALL MERCHANIS AND ADMINISTRATION OF THE PROPERTY OF THE PROPER								
WETLAN	WETLAND DETERMINATION							
	c Vegetation Pr		No (Circle)		(Circle)			
Wetland H	ydrology Presei s Present?	nt? (Ye) 1	No No	Is this Sampling Point Wit				
Remarks:								

Project/Site: Centerville Property Applicant/Owner: TV: City Property LC Investigator: Roth		Date: 7 25 13 County: 1 vesapeake State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes (No Yes (No	Community ID : Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species Stratum Indicator	Dominant Plant Specie	· · · · · · · · · · · · · · · · · · ·
1 Liriodendron tulipi Era C FACU	_	folia V FAC-
2 Querrus falcata pagadactalia (FACW)	$10_{_{_{_{023242000000000000000000000000000000000$	- I
3 Querous MichauxII C FACW		ucusanidatateerend olioakirenmoolistikiinmisimmi entifolistuspykkyssaassas.
4 Ulmus Rubra S FAC		очно положения п
5 Ostrya Virginiana S FACU-		di insulpantina in manifer
6 Asimina triloba Sh FACU+ 7 Chasmanthium Sessiliforum H FAC		
8 Decumaria barbara V OBL		I DOGU DEL CONTROLLE MAN CONTR
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	562	
Remarks: Sphagnum moss observed		
HYDROLOGY		
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Wetland hydrology Inc Primary Indicators Inundate Saturate Water M	; d d in Upper 12 Inches arks
Field Observations: Depth of Surface Water:(in.)	Drainage Secondary Indicate Oxidized	it Deposits e Patterns in Wetlands ors (2 or more required): Root Channels in Upper 12"
Depth to Free Water in Pit:(in.)		tained Leaves ill Survey Data
Depth to Saturated Soil:(in.)	✓ FAC-Nei	
Remarks:		

Map Unit Name (Series and Phase): Acredate Stit Learn Drainage Class: Poorly Douned Field Observations									
Taxonomy	Taxonomy (Subgroup): Typic Ochroquals Confirm Mapped Type? (Yes) No								
Profile Des Depth (inches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell_Moist	Mottle Abundance/Contrast	Texture, Concretions, Structure, etc.				
0-7		MX 311	1048 5/4		Clay Loan				
J=174+		7018 AT	1048 SI4	10	Clay Loam				
operálnostraronides.			Ad a literatura and Administrate a literatura de landa de la cinicia facilie.		######################################				
All and the second an	Enthalation Commission of the	with the side of the desired the side of t		$x_{i,i,k+1}(x_{i,j}) \leq x_{i,k+1}(x_{i,j}) \leq x_{i,$	social option for the last of the contract of the last of the la				
1000 Marieman de Americano de Carres	Angles and announced announced and announced a		Astronomical control c						
***************************************			assaussi sii sidain oo oo kiraa aadaan in ka						
Hydric Soil	Indicators:								
Remarks:	Histosol Concretions High Organic Content in Surface Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks) Remarks: WETLAND DETERMINATION								
	c Vegetation P ydrology Prese s Present?		No (Circle) No No	ls this Sampling Point Wit	(Circle) hin a Wetland? Yes No				
Remarks:		angana a dayiya a dana baqaaaa		and the second s					
	*								

1. Liquidambarstyriciflua C FAC 8. 2. Acer rubnum C FAC 10. 3. Acer rubnum S FAC 11. 4. Carpunus Caroliniana S FAC 12. 5. Asunina, triloba Sh FACU+ 13. 6. Arundinaria gigantea H FACU 14.	Project/Site: Centerville Property Applicant/Owner: Try-City Properties LL Investigator: Poth Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Date: 7 2 13 13 13 15 15 15 15 15
1. Liquidambarstyrciflua. C. FAC. 2. Arer rubnum. C. FAC. 3. Arer rubnum. S. FAC. 4. Carpunus Caroliniana. S. FAC. 5. Asunina. trilota. Sh. FACU. 6. Arundinana. gigantea. H. FACU. 7. Toxicodendron radicons. V. FAC. 8	VEGETATION	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Wetland hydrology Indicators: Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits	1 Liquidambarstyriciflua (FAC) 2 Acer rubnum (FAC) 3 Acer rubnum (FAC) 4 Carpunus Caroliniana (FAC) 4 Carpunus Caroliniana (FAC) 5 Asimina triloha (FAC) 6 Arundinaria gigantea H FAC) 7 Toxicodendron radicans (FAC) 8 Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).	9
Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Primary Indicators: Inundated Saturated in Upper 12 Inches Water Marks Drift Lines Sediment Deposits	HYDROLOGY	
Depth of Surface Water: Depth to Free Water in Pit: Depth to Saturated Soil: (in.) Secondary Indicators (2 or more required): Water-Stained Leaves Local Soil Survey Data FAC-Neutral Test Other (Explain in Remarks)		

Map Unit Name (Series and Phase): Acvedate Sitt Loan Drainage Class: Poorty Drained					
Taxonomy (Subgroup): Typic Orbraqual S Confirm Mapped Type? Yes No					
Profile Des Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist	otes A SIGN delicities and constitute of a significant design and a discontinuous and whether the	Texture, Concretions, Structure, etc. Sandy Learn Sandy Clay Learn
3-0+		1018 442 2010 0000000000000000000000000000000000	75/4		Sandy Clay Loan
Hydric Soil	Histosol Histic Epiped Sulfidic Odor Aquic Moistu Reducing Co	re Regime		Concretions High Organic Content in Organic Streaking in Sa Listed on Local Hydric S Listed on National Hydri Other (Explain in Remai	Soils List ic Soils List
WETLAND DETERMINATION					
Wetland Hy Hydric Soils	drology Prese	nt? Yes N	No (Circle) No No I	s this Sampling Point Wit	(Circle) hin a Wetland? Yes No
Remarks:					

Project/Site: Centerville Property Applicant/Owner: TW - City Properties, 1 Investigator: Rott Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Date: 7/25/13 County: Chesa pea Ve State: Vit Community ID : Transect ID: Plot ID: DS 21			
VEGETATION					
Dominant Plant Species Stratum Indicator	Dominant Plant Specie				
1 Querous Folicata progodoctolia C FACW	\mathbf{g}_{i}				
2 Livindendron tulipitora (FACU)					
3. Fagus grandifichia S FACU		National Control of the Control of Control o			
4 Arer rubrum S FAX	*2				
5 Carpinus cardiniara S FAC					
6 Ostrya Virginiana Sh FACU- 7 Azimina triloba Sh FACU+		obrześci szlosofonen i vielenąła mito-angoziaty oper-kalaka iz zawadzia sosto-miso dopociele:			
8 Avuntinona gigavitra H FACW					
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).					
Remarks:					
HYDROLOGY					
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available	Water M Drift Line	d d in Upper 12 Inches arks s			
Field Observations:	Drainage	t Deposits Patterns in Wetlands ors (2 or more required):			
Depth of Surface Water:(in.)	Oxidized	Root Channels in Upper 12" ained Leaves			
Depth to Free Water in Pit:(in.)		il Survey Data			
Depth to Saturated Soil:(in.)		xplain in Remarks)			
Remarks: No observed Hydrologic Indicators					

Map Unit Name (Series and Phase): Acredate Sitt Learn Drainage Class: Poorty Drained Field Observations						
Taxonomy (S	Taxonomy (Subgroup): Typic Chraqualfs Confirm Mapped Type? (Yes) No					
Profile Desc Depth (inches)	ription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Mois	Mottle (i) Abundance/Contra	Texture, Conc ast Structure etc	
٥-3 .	nicon jestigikooninenkokomikokkonstalaja	1018 313	None.		Lymas	<u> </u>
3.5		10787/3	none.	Mathadalah (III) Ayyo kapatipan jarapat pina pinangar mathadalah tahun kapupun	Sardy'C	lay Loam
5.14+		1048-4/2	LOYR 51	65	Sandy	lay Loam Lay Loam
- Constitution of the Cons			manti socializati orden di iliano di transi di manti socializati di manti socializati di manti socializati di m			
Commission			2010 hot room 00 10 to 400 to		***************************************	
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						and the second
Hydric Soil Ir	ndicators:					
Histosol Concretions High Organic Content in Surface Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)						
Remarks:		×				
WETLAND DETERMINATION						
Hydrophytic ' Wetland Hyd Hydric Soils	Vegetation Pri Irology Preser Present?	esent? (N nt? Yes (N Yes N		Is this Sampling Point	Within a Wetland?	(Circle)
Remarks:						

Project/Site: Centerville Overenty Applicant/Owner: Tra-City Properties, U Investigator: Roth Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area?	Yes No Yes No Yes No	Date: 7 35 13 County: Chesapeake State: VA Community ID: Transect ID: Plot ID: DS 22
(If needed, explain on reverse.) VEGETATION		
Dominant Plant Species Stratum Indicator 1 Liriodendron truipifera. C. FACU 2 Quercus MichauxII C. FACU 3 Dinus taeda C. FAC- 4 Ostnja Virginiana S. FACU- 5 Acer rubrum S. FACU- 6 Ostnya virginiana Sh. FACU- 7 Arundinaria gicjanta H. FACU 8. Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	121315151616	
Recorded Data (Describe in Remarks): Stream, Lake, or Tide Gauge Aerial Photographs Other No Recorded Data Available Field Observations: Depth of Surface Water: (in.) Depth to Free Water in Pit: (in.) Depth to Saturated Soil: (in.) Remarks: No Observed Hydrologic	Water M Drift Line Sedimen Drainage Secondary Indicate Oxidized Water-St Local So FAC-Nes Other (E	d d in Upper 12 Inches arks es t Deposits e Patterns in Wetlands ors (2 or more required): Root Channels in Upper 12" tained Leaves il Survey Data

Map Unit Name (Series and Phase): Acredule Silt Loan Drainage Class: Poorly Douned						
Taxonomy (Subgroup): Typic Ochroqualfs				Fiel	d Observations Confirm Mapped T	
Profile De Depth (inches)	scription: Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist	Mottle) Abundance/Contras	Texture, Concr t Structure, etc.	
0=1	plintro-social-invalvier-worklish coomileov	1018 d's	None_	with the least and the action of the properties of the contraction of	Sandy	
17-7-		70A6 3/3	-hae	valuation reproduction and the contract of the	Sandy	
7-77+		-10XB-A/3	1048 2/A		Zongh C	most you
Interview on Ambigue 1993 Basiye:	-service distribution of the control of the Analysis of the control of the contro	-44/sts-4-0cets.call south to this edition edition of the Poly of	Webstell (And Maria Company) of the second and the condition of the second and th	$\label{eq:constraints} \lambda \lambda x + \lambda^2 \lambda \lambda x + \lambda^2 \lambda x + \lambda^2 \lambda^2 \lambda^2 \lambda^2 \lambda^2 \lambda^2 \lambda^2 \lambda^2 \lambda^2 \lambda^2$. When the demonstration is a transfer of the description of the demonstration of the demon	itannii rinos auruma akkonii kanalanii erokalaer
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	Indicators:					
Histosol Concretions Histic Epipedon High Organic Content in Surfa ce Layer Sandy Soils Sulfidic Odor Organic Streaking in Sandy Soils Aquic Moisture Regime Listed on Local Hydric Soils List Reducing Conditions Listed on National Hydric Soils List Gleyed or Low-Chroma Colors Other (Explain in Remarks)						
Remarks:						
WETLAND DETERMINATION						
	c Vegetation Pr ydrology Preser s Present?		22	s this Sampling Point W	ithin a Wetland?	(Circle) Yes No
Remarks:				- The state of the		

Project/Site: <u>Centerville Property</u> Applicant/Owner: <u>This-City Properties</u> , LI Investigator: <u>Rath</u>	C	Date: 7/25/13 County: <u>Chesapeake</u> State: VA
Do Normal Circumstances Exist on the site? Is the site significantly disturbed (Atypical Situation)? Is the area a potential Problem Area? (If needed, explain on reverse.)	Yes No Yes No Yes No	Community ID : Transect ID: Plot ID:
VEGETATION		
Dominant Plant Species Stratum Indicator 1 Liquidamhar Styraciflua C FAC 2 Quercus Phellas C FAC+ 3 Carpinus Caroliniana S FAC 4 Dstrya Viviginiana S FAC 5 Ostrya Viviginiana S FAC 6 Asimina trilaba Sh FACU- 7 Chasmanthium sessiliflaum H FAC 8 Praxinus pennsylvanica H FACW Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). Remarks:	10. Vitis rotund 11. Decumeria k 12	SCENS H CPH SCENS
Recorded Data (Describe in Remarks): Stream, Lake, or Tide GaugeAerial PhotographsOtherNo Recorded Data Available Field Observations: Depth of Surface Water:(in.) Depth to Free Water in Pit:(in.) Depth to Saturated Soil:(in.) Remarks:	Water Manager Drift Line Sedimen Drainager Secondary Indicate Oxidized Water-St Local So FAC-Neu	d d in Upper 12 Inches arks s t Deposits Patterns in Wetlands ors (2 or more required); Root Channels in Upper 12" ained Leaves il Survey Data

Map Unit Name (Series and Phase): Acredate Sitt Loan Taxonomy (Subgroup): Typic Ochraquate Drainage Class: Poorly Trained Field Observations Confirm Mapped Type? Yes No					
Profile Description: Depth Matrix Color (inches) Horizon (Munsell Moist) O-0.5 VOYR 3 2	Mottle Colors (Munsell Moist) None VOYR 5 4 20	Texture, Concretions, Structure, etc. Silk Laam Clay Loam			
Hydric Soil Indicators: Histosol Histic Epipedon Sulfidic Odor Aquic Moisture Regime Reducing Conditions Gleyed or Low-Chroma Colors Remarks: High Organic Content in Surfa ce Layer Sandy Soils Organic Streaking in Sandy Soils Listed on Local Hydric Soils List Listed on National Hydric Soils List Other (Explain in Remarks)					
WETLAND DETERMINATION					
Hydrophytic Vegetation Present? Yes No Wetland Hydrology Present? Yes No Hydric Soils Present? Yes No Remarks:		(Circle) thin a Wetland? Yes No			
* **** * **** (******)					